

# Purchase Order Receipt Listing

Wednesday, August 03, 2016 10:22:28 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO33154 Receipt Dates from 8/2/2016 to 8/2/2016 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VU-TW/M001 TW Metals											
PO33154	✓		M304TR0.750W.120 f		7/29/2016	8/2/2016	120.0000		0.0000	0	\$0.00
USD	No		304 ss round tube	f	120.0000	PL0U01			0.0000	0	
			.750 x .120w								
			ml35373								
	2		M6061T6T0.3125W.0 f		7/29/2016	8/2/2016	48.0000		0.0000	0	\$0.00
	No		58								
			ALUM TUBE.3125	f	40.0000	PL0U01			0.0000	0	
			x .058w								
			ml35373								
	3		M6061T6T0.375W.05 f		7/29/2016	8/2/2016	84.0000		0.0000	0	\$0.00
	No		8								
			6061-T6 RD Tube	f	80.0000	PL0U01			0.0000	0	
			.375 x.058W								
			ml35373								
	4		M304TR0.500W.035 f		7/29/2016	8/2/2016	60.0000		0.0000	0	\$0.00
	No		304 RD Tube .500 x f		60.0000	PL0U01			0.0000	0	
			.035W								
			ml35373								
	5		71401-45		7/29/2016	8/2/2016	1.0000		0.0000	0	\$0.00
	No		procurement quality		1.0000	PL0U01			0.0000	0	
			ml35373								
	6		M304TR0.750W.049 f		7/29/2016	8/2/2016	100.0000		0.0000	0	\$0.00
	No		304 RD Tube .750 x f		100.0000	PL0U01			0.0000	0	
			.049W								
			ml35373								
	7		M304TR0.00W.120 f		7/29/2016	8/2/2016	60.0000		0.0000	0	\$0.00
	No		316 RD tubing 1.00 x f		60.0000	PL0U01			0.0000	0	
			.120w								
			ml35373								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
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Total Received Quantity: 473.0000  
 Total Qty to Inspect (PO U/M): 0.0000  
 Total Reject Quantity: 0.0000  
 Total Receipt Value: \$0.00  
 Total Balance Due Quantity: 0.0000



ORDER NO.: 60610168 FROM: CRAN PAGE 1

PACKING SLIP



CUST NUMBER: 1203820 NET WGT: 219.977 REQ. DATE: 07/29/16 CONFIRMED  
SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA  
SALES PERSON: DONNA SMALLEY CN K6A 1K7  
TERMS: NET 30 DAYS  
F.O.B.: SHIPPING POINT  
CUST ORD NO.: P033154  
SHIP BY: VIA: FREIGHT: RELEASE NO.: RECEIVING PHONE: WIDTH  
07/26/16 COMMON CARRIER PREPAID  
CN K6A 1K7

LINE ITEM DESCRIPTION  
0001 36925 SMLS CD 304/L A269 3/4 X .120 WA  
INVOICE QTY 120.000 FT  
SHIPPED QTY 120.000 FT  
WT 96.883  
PCS 6  
LENGTH 20' CL

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: 2B999.9  
PO: 49347978 HT: YX1511521 MFG: CHINA  
Export License: NLR PC: 6  
CUSTOMER QTY: SLB/CL: 4-108  
Expiration Date: 0/00/00 UOM FT

CLIN# 0002 41723 D6061-T6 5/16 OD X .058 WA  
ORD QTY 48.000 FT  
INVOICE QTY 48.000 FT  
SHIPPED QTY 48.000 FT  
WT 2.621  
PCS 4  
12 FT ML

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: EAR99  
PO: 49324038 HT: 32704387 MFG: UNITED STATES  
Export License: NLR PC: 4  
CUSTOMER QTY: SLB/CL: 281022  
Expiration Date: 0/00/00 UOM FT

CLIN# 0003 41952 D6061-T6 3/8 OD X .058 WA  
ORD QTY 80.000 FT  
INVOICE QTY 84.000 FT  
SHIPPED QTY 84.000 FT  
WT 5.695  
PCS 7  
12 FT ML

\*\* 1 TEST REPORTS REQUIRED \*\*  
ECCN: EAR99  
PO: 49342889 HT: 35420777 MFG: UNITED STATES  
Export License: NLR PC: 7  
CUSTOMER QTY: SLB/CL: 326185  
Expiration Date: 0/00/00 UOM FT

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

501683



ORDER NO.: 60610168 FROM: CRAN PAGE 2

CUST NUMBER: 1203820 NET WGT: 219.977 REQ. DATE: 07/29/16 CONFIRMED  
SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON CANADA  
SALESPERSON: DONNA SMALLEY SHIP BY: 07/26/16 COMMON CARRIER PREPAID  
TERMS: NET 30 DAYS VIA: FREIGHT: RELEASE NO.: RECEIVING PHONE: WIDTH LENGTH  
F.O.B.: SHIPPING POINT CAN K6A 1K7 HAWKESBURY ON ONTARIO CANADA CN K6A 1K7

LINE ITEM DESCRIPTION 0004 36449 SMLS CD 304/L A269 1/2 OD X .035 WA  
CLIN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS  
60.000 FT 60.000 FT 60.000 FT 10.426 3  
\*\* 1 TEST REPORTS REQUIRED \*\*  
\*\* 1 CERTS REQUIRED \*\*

ECCN: 2B999.g PO:49342471 HT:YX1506582 MFG:CHINA  
Export License: NLR PC: 3 SLB/CL:11-65  
Expiration Date: 0/00/00 CUSTOMER QTY: 60.000 UOM FT

0005 36860 SMLS CD 304/L A269 3/4 OD X .049 WA  
CLIN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS  
100.000 FT 100.000 FT 100.000 FT 36.672 5  
\*\* 1 TEST REPORTS REQUIRED \*\*

ECCN: 2B999.g PO:49339072 HT:YX1501783 MFG:CHINA  
Export License: NLR PC: 5 SLB/CL:9-110  
Expiration Date: 0/00/00 CUSTOMER QTY: 100.000 UOM FT

0006 37123 SMLS CD 316/L A269 1 OD X .120 WA  
CLIN# ORD QTY INVOICE QTY SHIPPED QTY WT PCS  
60.000 FT 60.000 FT 60.000 FT 67.680 3  
\*\* 1 TEST REPORTS REQUIRED \*\*

ECCN: 2B999.g PO:49347978 HT:YX1604510 MFG:CHINA  
Export License: NLR PC: 3 SLB/CL:4-111  
Expiration Date: 0/00/00 CUSTOMER QTY: 60.000 UOM FT

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

PACKING SLIP



8016-8-3



PACKING SLIP

ORDER NO.: 60610168 FROM: CRAN PAGE 3



CUST NUMBER: 1203820 NET WGT: 219.977 REQ. DATE: 07/29/16 CONFIRMED

SOLD TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKESBURY ON

CANADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

SALESPERSON: DONNA SMALLEY

SHIP BY:

07/26/16

VIA: COMMON CARRIER

PREPAID

SHIPPING POINT

FREIGHT:

RELEASE NO.:

RECEIVING PHONE:

LENGTH

LINE ITEM DESCRIPTION

BROKERS KUEHNE AND NAGEL LTD

Caller: LINDA 613-632-9577

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
B	REDDICRATE	1.000	245.000		20.5000	

1.000 245.000

BY: TB  
RT 000-

UNLOAD TYPE: NONE SPECIFIED

8-8-3

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



PACKING SLIP

ORDER NO.: 60610168 FROM: CRAN PAGE 4

CUST NUMBER: 1203820 NET WGT: 219.977 REQ. DATE: 07/29/16 CONFIRMED

SOLD TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
CANADA  
SHIP TO: DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
ONTARIO CANADA  
CN K6A 1K7

SALESPERSON: DONNA SMALLEY  
NET 30 DAYS  
SHIPPING POINT PO33154  
COMMON CARRIER  
PREPAID  
SHIP BY: 27 ENGLEHARD DRIVE  
MONROE TWP NJ 08831

RECEIVING PHONE:  
RELEASE NO.:  
FREIGHT:  
VIA:  
CUST ORD NO.:  
F.O.B.:  
TERMS:  
SALESPERSON:

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

### "CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confireous non-manufactured wood packing material"

Authorized Test Report Clerk *Jessica Mammone*

Date: 7/26/16

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



PURFA™

Producer of Premium Stainless Steel Seamless Tubes

# MILL TEST REPORT

Purchaser: TW METALS-Cranbury		Certificate No.: 16-4-194	
Contract No.: TWM P.O.No.: M49347978		Date of Issue: 2016.5.11	
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW	
Process: Cold Drawn			
Delivery Condition: OD Polished to 240 Grit			

Steel Grade	Heat Number	Lot Number	Dimensions		Quantity
TP304/TP304L	YX1511-52P	4-108	8/4" x 0.120" x 20'		50 Pieces
					1,000 Feet

Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.018	1.25	0.029	0.001	0.39	18.40	8.05	-	-
Product Analysis	0.020	1.22	0.032	0.002	0.38	18.38	8.43	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")		Tensile Strength (PSI)		Yield Strength (PSI)		Flattening Test		
Requirements	≥35		≥75,000		≥30,000		Rp / 0.2%		
Test Results	63/64		93,000/94,000		39,000/40,000				

Test Item	Reduction of Area Z (%)		Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.T. Test
Requirements	-		HRB≤80	-	30%	e=0.09	-	-
Test Results	-		75/77	-	Passed	Passed	-	OK
Test Item	Eddy Current Test		Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection		
Requirements	ASTM E 426		-	-	ASTM A262 E	End Cut		
Test Results	Passed		-	-	OK	Appearance		

ISO 9001:2008 Certified by Intertek 110703068 PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA

- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)

- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

By:



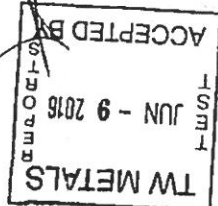
James Shi / Manager

Quality Control Department

Shanghai Pu Fa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

We hereby certify that this report is true and correct.





PRECISION TUBE CO.  
287 WISSAHICKON AVE.  
NORTH WALES PA 19454

A COMPANY OF HULLER INDUSTRIES

Control No: 171189

### CERTIFIED TEST REPORT

CUSTOMER PURCHASE ORDER NO.	49342889 LINE 001
CUST. ORD. NO.	326185
SHIP TO	SHIP TO
SOLD: TW METALS CAROL STREAM, IL 60188 235 TUBEWAY UNITED STATES	SHIP: TW METALS CAROL STREAM, IL 60188 235 TUBEWAY UNITED STATES
QUANTITY ORD.	QTY. SHIPPED
DATE SHIPPED	01/06/16

QUANTITY ORD.	3000 FT
DESCRIPTION	METAL - 6061 ALUM
TEMPER.	T6
SPEC	AMS 4082P AMS-WW-T-700/6B
LENGTH	12 FT
LGTH TOL	+ .1250 IN - .0000 IN
SHAPE	ROUND
FINISH	STRAIGHT EXACT LENGTHS
OD	3.750 + .0030 - .0030
ID	.0580 + .0040 - .0040
WALL	

SAMPLE #	1
TENSILE STRENGTH (P.S.I.)	44,954
YIELD STRENGTH (P.S.I.)	40,057
ELONGATION IN 2 INCHES (%)	14
ROCKWELL HARDNESS	
AVERAGE GRAIN SIZE (MM.)	

FLATTENING: PASS	16/08/03
Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES	
NON-DESTRUCTIVE TESTS	ASSEMBLED BY
EDDY CURRENT: PASS	

ALLOY: 6061	HEAT: 35420777
RAW MATL VENDOR: Kaiser Aluminum	TRACABILITY #: P555690
Min	Max
Si	0.40
Fe	0.70
Cu	0.15
Mn	0.80
Mg	1.20
Cr	0.35
Zn	0.25
Al	0.15
Rem.	

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tube's sales acknowledgment. During the manufacturing, testing, and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary contaminant. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2011/65/EU).

Manufactured in the USA  
QMS Registered to ISO 9001: 2008

By: *[Signature]*

Art Onatis  
QA Manager

01/13/16  
Page: 1 of 1

MS



# **CERTIFIED TEST REPORT**

<http://online.kaiseraluminum.com>

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**KAISER ALUMINUM**  
**FABRICATED PRODUCTS, LLC**  
 2425 STEVENS DRIVE  
 RICHLAND, WA 99352

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:	
PT556890		SPIRIT-371850		5.400 LB/PC .500 LB/0 LB 1.312 OD X .085 WALL ESRT	
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
319478	001	11/13/2015	50751-310	6061	O
WEIGHT SHIPPED:	QUANTITY:	BL NUMBER:	DWG/DWG/THICKS:	WIDTH:	LENGTH:
6395.000 LB	983.000 PCS	004887			13.984 FT
SHIP TO:					
PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA					
MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA					



## **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%ELONG IN 2	HARDNESS	CONDUCT.	BEND
50751-310	0001	0001	18.0	6.5	27.6	N/A	N/A	N/A
50751-310	0001	0002	17.6	5.9	27.5	NA N/A	N/A	N/A
50751-310	0001	0003	17.9	6.2	27.6	NA N/A	N/A	N/A
50751-310	0001	0004	17.9	5.9	26.8	NA N/A	N/A	N/A
50751-310	0001	0005	18.5	6.1	28.4	NA N/A	N/A	N/A
50751-310	0001	0006	18.1	6.0	28.7	NA N/A	N/A	N/A

## **Chemical Composition (wt%), Aluminum Remainder**

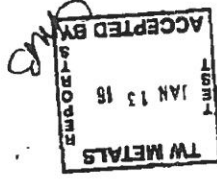
LIMITS	SI	FE	CU	MN	MG	CR	ZN	TI	PB	BI	ZR	EA	TOT
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F82353	.58	.32	.22	.05	1.02	.09	.05	.02	.00	.00	.00	.01	.02

## **Applicable Requirements:**

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I  
 UNS#A96061 Also conforms to EN 10204 3.1

## **Miscellaneous Notes**

MANUFACTURED IN USA MELTED IN USA  
 MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.



**KAISER**  
**ALUMINUM**  
 FABRICATED PRODUCTS

*Best in Class*

CERTIFIED TEST REPORT  
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
 FABRICATED PRODUCTS, LLC  
 2425 STEVENS DRIVE  
 RICHLAND, WA 99362

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

JOSEPH AMES, QUALITY MANAGER

*[Handwritten signature]*

TH METALS  
 188  
 JAN 13 16  
 ACCEPTED BY  
 S. J. ROYER

*[Handwritten initials]*

**CERTIFIED TEST REPORT**

CUSTOMER PURCHASE ORDER NO.		CUST. ORD. NO.		PRECISION TUBE P/N	
49324038 LINE 001		281022		24A031250580005	
SOLD: TW METALS		SHIP: TW METALS			
TO		TO			
27 ENGLEHARD DRIVE		27 ENGLEHARD DRIVE			
MONROE TWP, NJ 08831		MONROE TWP, NJ 08831			
UNITED STATES		UNITED STATES			
QUANTITY ORD.		DESCRIPTION		QTY. SHIPPED	
3000 FT		METAL - 6061 ALUM		3300 FT	
		TEMPER - T6			
		SPEC - AMS 4082P			
		(ASTM-B-210-12			
		AMS-MW-T-700/6B			
		LENGTH 12 FT			
		LGTH TOL +.1250 IN			
		SHAPE - ROUND			
		FINISH STRAIGHT EXACT LENGTH			
		OD .3125			
		ID .0580			
		WALT +.0040			
		- .0040			
				DATE SHIPPED	
				01/07/15	

MECHANICAL PROPERTIES		DESTRUCTIVE TESTS		TEST	OTHER
SAMPLE #	1	TENSILE STRENGTH (P.S.I.)	46,473	YIELD STRENGTH (P.S.I.)	41,218
		ELONGATION IN 2 INCHES (%)	15	ROCKWELL HARDNESS	
		AVERAGE GRAIN SIZE (MM.)			

Comments: FAR BAA COMPLIES, DFARS BAA COMPLIES, FAR TAA COMPLIES

NON-DESTRUCTIVE TESTS

EDDY CURRENT: PASS

CHEMICAL COMPOSITION									
TRACEABILITY #: 32704387									
RAW MATL. VENDOR: PT4544 - Kaiser Aluminum									
HEAT: 6061									
ALLOY: 6061									
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Rem.
0.40	0.15			0.80	0.04				
0.80	0.70	0.40	0.15	1.20	0.35	0.25			0.15
OTHER ELEMENTS: 0.05 MAX EACH / 0.15 MAX TOTAL									

We hereby certify that the material has been manufactured and tested in accordance with the requirements of the applicable specifications and descriptions set forth on Precision Tubbs sales acknowledgment. During the manufacturing, testing and inspection, the product did not come into direct contact with mercury or any of its compounds, nor with any mercury containing device employing a single boundary containment. Test results indicate that the material is compliant with the current revision of the RoHS Directive (2002/95/EU).

Melted and Manufactured in USA  
QMS Registered to ISO 9001: 2008

Art Onaitis  
QA Manager

01/07/15  
Page: 1

1 of 1

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

CERTIFIED TEST REPORT  
<http://online.kaiseraluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
2425 STEVENS DRIVE  
RICHLAND, WA 99352

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:	
PT45444		SPIRIT-371850		5.400 LB/PC .500 LB/-0 LB 1.312 OD X .085 WALL ESRT	
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:
317897	001	11/25/2014	50751-284	6061	O
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIA/DAF/THKNS:	WIDTH:	LENGTH:
10618.000 LB	1933.000 PCS	004598			13.984 FT
SHIP TO:					
PRECISION TUBE CO 287 WISSAHICKON AVENUE N. WALES, PA 19454 USA					
SOLD TO:					
MUELLER INDUSTRIES, INC PRECISION TUBE 8285 TOURNAMENT DRIVE STE. 150 MEMPHIS, TN 38125 USA					



## Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	%ELONG IN 2	HARDNESS	CONDUCT.	BEND
-----------	-------	---------	-----------	-----------	-------------	----------	----------	------

50751-284	0001	0001	19.5	8.7	19.8	N/A	N/A	N/A
50751-284	0001	0002	19.6	9.2	19.6	N/A	N/A	N/A
50751-284	0001	0003	19.3	8.7	20.3	N/A	N/A	N/A
50751-284	0001	0004	19.4	9.0	18.8	N/A	N/A	N/A
50751-284	0001	0005	19.7	9.1	19.3	N/A	N/A	N/A
50751-284	0001	0006	19.7	8.8	18.2	N/A	N/A	N/A
50751-284	0001	0007	19.5	9.3	19.9	N/A	N/A	N/A
50751-284	0001	0008	19.8	9.2	19.2	N/A	N/A	N/A
50751-284	0001	0009	19.2	8.6	19.9	N/A	N/A	N/A
50751-284	0001	0010	19.4	9.1	18.9	N/A	N/A	N/A
50751-284	0001	0011	19.7	8.7	21.4	N/A	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	.0
F73891	.60	.30	.23	.05	.97	.06	.06	.02	.00	.00	.00	.02	.05
F73885	.60	.30	.23	.05	.97	.06	.05	.02	.00	.00	.00	.01	.02
F73887	.57	.30	.22	.05	.98	.07	.11	.02	.00	.00	.00	.01	.02

## Applicable Requirements:

ASTM-B241-12 NON-STENCILED ASTM-B221-13 ASTM-B345-11 AMS-QQ-A-200/8 97(R07) TYPE I  
UNS#A96061 Also conforms to EN 10204 3.1

## Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00011377  
Kaiser Order Number: 317897  
Line Item: 001

PUPA<sup>TM</sup>

Producer of Premium Stainless Steel Seamless Tubes

# MILL TEST REPORT

Purchaser: TW METALS-Cranbury	Certificate No.: 16-1-11	Date of Issue: 2016.1.5	Contract No.: TWM P.O.No.: M49342471	Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW	Process: Cold Drawn		Delivery Condition: OD Polished to 240 Grit			
Steel Grade	TP304/TP304L	Heat Number	YX1506-582	Lot Number	11-65	Dimensions		Pieces	500	Quantity	10,000

Chemical Composition by Weight (%)										
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co	
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-	-
Ladle Analysis	0.023	0.65	0.029	0.003	0.30	18.23	8.05	-	-	-
Product Analysis	0.025	0.62	0.030	0.003	0.34	18.34	8.15	-	-	-

Mechanical Properties										
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Rm	Yield Strength (PSI)	Rp / 0.2%	Test Results	Requirements	Test Results	Test Item	Reduction of Area Z (%)
Test Results	61/62	89,000/90,000	≥75,000	≥30,000	39,000/40,000				Hardness	
Requirements	≥35								Cold Bend	
Test Results	-	-	-	-	-	75/77	-	-	Flaring	
Requirements	-	HRB≤80	22%	e=0.09	Passed	Passed	-	-	Flattening	
Test Results	-	-	-	-	-	Passed	-	-	Flange	
Test Results	-	-	-	-	-	Passed	-	-	P.M.T. Test	
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection	Appearance	OK	OK	OK	OK
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance	OK	OK	OK	OK

ISO 9001:2008 Certified by Intertek 110703068 PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

(1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

(2) All tubes tested per ASTM A1016-14

(3) Materials is NACE MR0103-2007 compliant (per Section 2.5)

(4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA

- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

By:



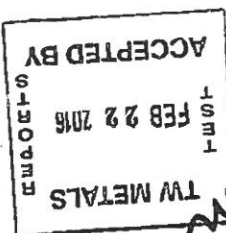
James Shi / Manager

Quality Control Department

Shanghai Pupa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

We hereby certify that this report is true and correct.





# MILL TEST REPORT

Purchaser: TW METALS-Cranbury	Certificate No.: 15-11-44	Date of Issue: 2015.11.5	Specifications: ASTM A213-13/ASTM A269-14E1 BAW	Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit
Contract No.: TWM P.O.No.: M493339072	Heat Number: YX1501-783	Lot Number: 9-110	Dimensions: 3/4" x 0.049" x 20'	Pieces: 250	Quantity: 5,000 Feet
Steel Grade: TP304/TP304L	Heat Number: YX1501-783	Lot Number: 9-110	Dimensions: 3/4" x 0.049" x 20'	Pieces: 250	Quantity: 5,000 Feet

Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.68	0.031	0.001	0.37	18.35	8.05	-	-
Product Analysis	0.019	0.70	0.033	0.002	0.39	18.37	8.31	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Yield Strength (PSI)	Rm	Cold Bend	Flaring	Flattening	Flange	P.M.T. Test
Requirements	≥35	≥75,000	88,000/89,000	22%	Test	Test	Test	Test	Test
Test Results	63/64	88,000/89,000	33,000/34,000	e=0.09	Passed	Passed	Passed	Test	Test
Test Item	Reduction of Area	Hardness	Flaring	Flattening	Flange	P.M.T. Test	Macroscopic Inspection	End Cut	Appearance
Requirements	HRB≤80	75/77	Test	Test	Test	Test	Test	Test	Test
Test Results	-	-	-	-	-	-	-	-	-
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Corrosion Test	Intergranular	Macroscopic Inspection	End Cut	Appearance	OK
Requirements	ASTM E 426	-	-	-	-	-	-	-	-
Test Results	Passed	-	-	-	-	-	-	-	-

ISO 9001:2008 Certified by Intertek 110703068 PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

CANNOT CERTIFY COMPLIANCE FAR BAA / DFARS BAA / FAR TAA



By:

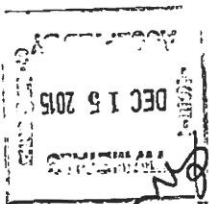
James Shi / Manager

Quality Control Department

Shanghai Pura Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

We hereby certify that this report is true and correct.





PuFA™

# MILL TEST REPORT

Producer of Premium Stainless Steel Seamless Tubes

Purchaser: TW METALS-Cranbury	Certificate No.: 16-4-198
Contract No.: TW M P.O.No.: M49347978	Date of Issue: 2016.5.11
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-15c/ASME SA213-15/ASTM A269-15a EAW
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit

Steel Grade	Heat Number	Lot Number	Dimensions	Quantity
TP316/TP316L	YX1604-510	4-111	1" x 0.120" x 20'	125 Pieces
				2,500 Feet

Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	16.00-18.00	10.00-14.00	2.0-3.0	-
Ladle Analysis	0.016	0.65	0.026	0.001	0.35	16.70	10.06	2.02	-
Product Analysis	0.020	0.64	0.033	0.002	0.34	16.85	10.24	2.03	-

Mechanical Properties									
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Yield Strength (PSI)	Rm	Cold Bend	Flaring	Flattening	Flange	P.M.T. Test
Requirements	≥35	≥75,000	≥30,000	80,000/81,000	37,000/38,000				
Test Results	65/66								
Test Item	Reduction of Area	Hardness							
Requirements		HRB≤80							
Test Results		72/74							
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection	End Cut	Appearance	OK	OK
Requirements	ASTM E 426	-	-	ASTM A262 E	-	OK	OK	OK	OK
Test Results	Passed	-	-	OK	OK	OK	OK	OK	OK

ISO 9001:2008 Certified by Intertek I10703068

PED Certified by SZUTEST 2195-PED-1526002

## Additional Remarks:

(1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

(2) All tubes tested per ASTM A1016-14

(3) Materials is NACE MR0103-2007 compliant (per Section 2.5)

(4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)

(5) In Compliance with EN 10204-3.1

(6) In Compliance with RoHS Stipulation

(7) No weld repair performed

(8) Free from mercury contamination

(9) Free from radioactive contamination

(10) Billets melt and pipes/tubes manufactured in China

(11) All tubes 100% PMI tested

(12) All tubes 100% Eddy Current tested

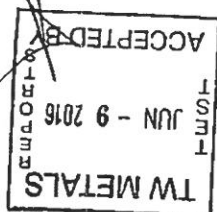
We hereby certify that this report is true and correct.

James Shi / Manager

Quality Control Department

## Shanghai PuFa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



By:

16/08/03

CANNOT CERTIFY COMPLIANCE  
FAR BAA / DFARS BAA / FAR TAA

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u>	SIGNED OFF BY: _____	DATE: <u>16-03-15</u>

Testers located in the Quality Office

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.			
RECORD RESULTS BELOW			
TYPE OF MATERIAL	HRC	HRB	DUR A
SIZE OF TEST SAMPLE			
HARDNESS / DUROMETER READING			

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	(Y)	
CORRECT FINISH	(Y)	
CORROSION	(Y)	
CORRECT GRAIN DIRECTION	(Y)	
CORRECT MATERIAL	(Y)	
CORRECT THICKNESS	(Y)	
PHOTO REQUIRED	(Y)	
CORRECT MATERIAL	(Y)	
CORRECT REF # TO LINK CERT	(Y)	
CORRECT MATERIAL IDENTIFICATION	(Y)	
CORRECT # ON THE MATERIAL	(Y)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y)	
DOES THIS REQUIRE AN EXTRUSION REPORT	(Y)	

MATERIAL CERT REC'D: <u>yes</u>	QUANTITY RECEIVED: <u>60'</u>	THICKNESS ORDERED: <u>.035</u>
QUANTITY INSPECTED: <u>60'</u>	QUANTITY REJECTED: <u>0</u>	THICKNESS RECEIVED: <u>.035</u>
		SHEET SIZE ORDERED: <u>N/A</u>
		SHEET SIZE RECEIVED: <u>N/A</u>

MATERIAL: <u>MATK0500000035</u>	DATE: <u>16-03-15</u>
PO / BATCH NO.: <u>B033454/H135373</u>	

# MATERIAL RECEIPT INSPECTION FORM

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1316TR/0010.120  
 DATE 16/08/03  
 MATERIAL CERT REC'D  
 QUANTITY RECEIVED  
 QUANTITY INSPECTED  
 QUANTITY REJECTED  
 THICKNESS ORDERED 1.00X.120W  
 THICKNESS RECEIVED 1.00X.115W  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED  
 PO/BATCH NO 33154/135373

DESCRIPTION	NCR	(Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	Y	(N)	
CORROSION	X	(N)	
CORRECT GRAIN DIRECTION	Y	(N)	
CORRECT MATERIAL	Y	(N)	
CORRECT THICKNESS	Y	(N)	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	Y	(N)	
CORRECT REF # TO LINK CERT	Y	(N)	
CORRECT MATERIAL IDENTIFICATION	Y	(N)	
CORRECT M# ON THE MATERIAL	Y	(N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT?	Y	(N)	

ASTM A213-15  
YX1664-870

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
 RECORD RESULTS BELOW

HRC	HRB	DUR A	DUR D

TYPE OF MATERIAL  
 SIZE OF TEST SAMPLE  
 HARDNESS / DUBOMETER READING

Testers located in the Quality Office

**QC 18 INSPECTION**

INSPECTED BY 14  
 DATE 16/08/03

SIGNED OFF BY  
 DATE

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 33154/135373  
 MATERIAL M304TR 304W 120 DATE 16/08/03  
 MATERIAL CERT REC'D 460  
 QUANTITY RECEIVED 120'  
 QUANTITY INSPECTED 120'  
 QUANTITY REJECTED  
 THICKNESS ORDERED 3.48X, 120W  
 THICKNESS RECEIVED 3.48X, 120W  
 SHEET SIZE ORDERED  
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

Testers located in the Quality Office

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK	RECORD RESULTS BELOW	TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING
	HRC			
	HRB			
	DUR A			
	DUR B			

**QC 18 INSPECTION**  
 INSPECTED BY DAS  
 DATE 16/08/03  
 SIGNED OFF BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in



# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO 33154/135373

MATERIAL ALUMINUM 3315 W.058  
DATE 16/08/03

MATERIAL CERT REC'D  
QUANTITY RECEIVED 48'  
QUANTITY INSPECTED 48'  
QUANTITY REMAINTED 48'

THICKNESS ORDERED 3125 W.058  
THICKNESS RECEIVED 3125 W.054  
SHEET SIZE ORDERED  
SHEET SIZE RECEIVED

COMMENTS

DESCRIPTION

NCR (Check Y/N)

SURFACE DAMAGE  
CORRECT FINISH  
CORROSION  
CORRECT GRAIN DIRECTION  
CORRECT MATERIAL  
CORRECT THICKNESS  
PHOTO REQUIRED  
CORRECT MATERIAL  
CORRECT REF # TO LINK CERT  
CORRECT MATERIAL IDENTIFICATION  
CORRECT M# ON THE MATERIAL  
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?  
DOES THIS REQUIRE AN EXTRUSION REPORT?

32704387

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK  
RECORD RESULTS BELOW

TYPE OF MATERIAL	SIZE OF TEST SAMPLE	HARDNESS / DUROMETER READING
HRC		
HRB		
DUR A		
DUR D		

Testers located in the Quality Office

QC 18 INSPECTION

INSPECTED BY

14  
9-03

DATE 16/08/03

DATE

SIGNED OFF BY

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and return to be scanned and received in

FORMS Quality Assurance Approved OAMRIF Material Receipt Inspection Form rev B



# MATERIAL RECEIPT INSPECTION FORM

PO / BATCH NO.: 03354/M3533

MATERIAL: H804TR2.750LX 019  
DATE: 16-03-15

THICKNESS ORDERED: 0.049  
THICKNESS RECEIVED: 0.049  
SHEET SIZE ORDERED: N/A  
SHEET SIZE RECEIVED: N/A

MATERIAL CERT REC'D: 405  
QUANTITY RECEIVED: 100' 5" 100' 5"  
QUANTITY INSPECTED: 100'  
QUANTITY REJECTED: 0

DESCRIPTION	NCR (check Y/N)	COMMENTS
SURFACE DAMAGE	(Y) N	
CORRECT FINISH	(Y) N	
CORROSION	(Y) N	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT REF # TO LINK CERT	(Y) N	151M 4215
CORRECT MATERIAL IDENTIFICATION	(Y) N	121501-793
CORRECT # ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y) N	
DOES THIS REQUIRE AN EXTRUSION REPORT	(Y) N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.				
RECORD RESULTS BELOW				
HRC	HRB	DUR A	DUR D	

Testers located in the Quality Office

QC-18 INSPECTION  
ENGINEERING SIGNOFF (if required)  
INSPECTED BY: DAS  
DATE: 16-03-15  
SIGNED OFF BY:  
DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**

Purchase Order ID PO33154

Purchase Order Date 7/25/2016 9:23:46 AM  
PO Print Date 7/25/2016

Order From :

TW METALS  
PO BOX 933014  
ALANTA, GA 31193-3014  
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone

585 768 5600

Ship To Contact  
Ship To Phone

YRC COLLECT

Ship Via:  
Ship Acct:

Buyer  
Customer POID  
Customer Tax #  
Terms  
Currency  
FOB  
FCA - (Free Carrier)

Line	Reference	Vendor Part Number	Description/ Mfg ID	Reg Date/ Taxable	CD	Reg Qty/ Unit of Measure	PO Unit Price	Extended Price
------	-----------	--------------------	------------------------	----------------------	----	--------------------------------	---------------	-------------------

1	M304TR0.750W.120	304 ss round tube .750 x .120w	7/29/2016	Yes	F	120.00	\$3.95	\$474.00
MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING AS PER ASTM A213 OR AMSE SA213 OR ASTM A269								
Line Comments								
Delivery Comments								

2	M6061TT6T0.3125W.058	ALUM TUBE .3125 x .058w	7/29/2016	Yes	F	40.00	\$2.50	\$100.00
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241								
Line Comments								
Delivery Comments								

Line Total:

\$100.00

Line Total:

\$474.00

Spoke 8-3

Notes

Note:

7/25/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**  
Purchase Order ID PO33154  
Purchase Order Date 7/25/2016 9:23:46 AM  
PO Print Date 7/25/2016

Order From :

TW METALS  
PO BOX 933014  
ALNTANTA, GA 31193-3014  
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name  
Vendor Phone 585 768 5600  
Ship To Contact  
Ship To Phone  
Ship Via:  
Ship Acc:

YRC COLLECT

Buyer  
Customer POID  
Customer Tax #  
Terms  
Currency  
FOB  
FCA - (Free Carrier)

10127-2607  
Net 30  
USD

3

M6061T6T0.375W.058

6061-T6 RD Tube .375  
x.058W

7/29/2016  
Yes

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING  
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR  
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR  
ASTM B241

new 84x

80.00

\$2.15

\$172.00

Line Total:

\$172.00

4

M304TR0.500W.035

304 RD Tube .500 x .035W

7/29/2016  
Yes

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

DAS  
9  
9-89

Sp/16-8-3

60.00

\$1.50

\$90.00

Line Total:

\$90.00

Note:

7/25/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO33154

Purchase Order Date 7/25/2016 9:23:46 AM  
PO Print Date 7/25/2016

Page Number 3 of 4

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

Contact Name  
Vendor Phone

585 768 5600

Ship To Contact  
Ship To Phone

Ship Via:  
Ship Acct:

YRC COLLECT

FOB

FCA - (Free Carrier)

Currency

USD

Terms

Net 30

Customer Tax #

10127-2607

Customer POID

Buyer

procurement quality clauses

No

7/29/2016

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

5 71401-45

procurement quality clauses

No

7/29/2016

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

6 M304TR0.750W.049

304 RD Tube .750 x .049W

7/29/2016

Yes

7/29/2016

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

DAS  
9  
9-89

100.00

F

\$2.10

\$210.00

Line Total:

\$0.00

Line Total:

\$210.00

Note:

7/25/2016



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

# PURCHASE ORDER

Purchase Order ID PO33154

Purchase Order Date 7/25/2016 9:23:46 AM  
PO Print Date 7/25/2016

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Order From :

TW METALS  
PO BOX 933014  
ALANTA, GA 31193-3014  
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

FOB

Currency

USD

Terms

Net 30

Customer POID

Customer Tax #

10127-2607

Buyer

Customer POID

Customer Tax #

10127-2607

Currency

USD

FOB

FCA - (Free Carrier)

7 M316TR1.00W.120

316 RD tubing 1.00 x .120w

7/29/2016

Yes

7/29/2016

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING  
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

8016-B-3

Line Total:

\$300.00

PO Total:

\$1,346.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr: 2

Change Date: 7/25/2016